CADD/CCC Quarterly Conference Call
November 7th 2016

Participants:

<table>
<thead>
<tr>
<th>Participant</th>
<th>Organization</th>
<th>Participant</th>
<th>Organization</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamberson, Julie</td>
<td>Missouri DOT</td>
<td>Zwanka, Merrrill E</td>
<td>South Carolina DOT</td>
</tr>
<tr>
<td>Krogman, Jason</td>
<td>Minnesota DOT</td>
<td>Kerstetter, Joseph</td>
<td>Tennessee DOT</td>
</tr>
<tr>
<td>Malusky, Katheryn</td>
<td>AASHTO</td>
<td>Ray, Margie</td>
<td>Texas DOT</td>
</tr>
<tr>
<td>Wong, Maribel</td>
<td>AASHTO</td>
<td>Farley, Paul</td>
<td>West VA DOT</td>
</tr>
<tr>
<td>Waldrop, Drew</td>
<td>Alabama DOT</td>
<td>Hayes, Cyler</td>
<td>AET</td>
</tr>
<tr>
<td>Sullivan, Paul E.</td>
<td>Arizona DOT</td>
<td>Morrison, Wilma A</td>
<td>AET</td>
</tr>
<tr>
<td>Winkelman, Melinda</td>
<td>Illinois DOT</td>
<td>Rebel, Bill</td>
<td>AET</td>
</tr>
<tr>
<td>Jones, Kevin</td>
<td>Iowa DOT</td>
<td>Artman, Nate</td>
<td>Sika</td>
</tr>
<tr>
<td>Miller, Patricia</td>
<td>Pennsylvania DOT</td>
<td>McCormick, Shawn</td>
<td>TEC</td>
</tr>
<tr>
<td>Short, Temple</td>
<td>South Carolina DOT</td>
<td>Vuckovska, Anita</td>
<td>W. R. MEADOWS, INC.</td>
</tr>
</tbody>
</table>

1. **CCC/CADD** work plan updated and effective January 2017 and available on NTPEP website and sent as an attachment to this email.
   - AET question on IR spectrum sample prep:
     Section 5.4 - Preparation procedure needs to be included in the Work Plan – essentially sample has to be dried prior to running IR. Remove word “horizontal” and the H from ATR. Clarify co-added scans.
     **Action Item:** AET & TEC to send procedure language to Julie BY 11/18/16.

2. Discuss comments received from work plan ballots
   - CCC
     - would like NTPEP to continue to use D2369 instead of D1644 for nonvolatile content
     **Response:** No objection from states on the line to use D1644. Unfortunately, this was not added to the work plan sooner but has always been the method used by laboratory.
   - CADD
     - the proposed Fourier Transform Infrared Spectroscopy, FTIR, using the Horizontal Attenuated Total Reflectance, HATR, method with the diamond crystal is concerning. While this method is very handy it may not give sufficient definition of the peaks on liquid admixtures due to the presence of water. We would recommend the guidance of ASTM C494 for infrared analysis and the formation of a KBr (potassium bromide) pellet. For a liquid admixture, a scan of the solids cast in KBr pellet is a better representation of the chemical fingerprint, and is suitable non-liquid admixtures.
     **Response:** It is expected that this will be clarified in the ASTM C494 standard itself and the technical committee members on the line have no objection to using the ATR with crystal method. The sample preparation language that will be added to the work plan should also help clear this up.
     - Section 2: What is the justification for removing the year of the standard? If you want to verify that the manufacturer and the NTPEP lab are performing the identical test you need to ensure that the year of the standard is the same.
Response: NTPEP evaluations are to follow the most current test method and this will be clarified to all manufacturers. Additionally, year references for standards will be included in the reports uploaded to DataMine.

Action Item: Maribel to confirm DM 3.0 denotes years for standards where data values are uploaded.

Action Item: Work plan needs to clarify that the most current test method is to be used, and the testing lab publishes the year of the standard in the uploaded pdf reports

- Section 5.2.4 has “If the technician does not routinely perform the test, proficiency of the technician shall be evaluated and documented prior to testing of admixtures” How many tests are required in what time frame to be considered routinely?
  Response: This will be defined by the laboratory in their Quality System Manual that we verify is compliant with R18 during the QC/QA audits.

- Section 2 ASTM C494 is only in the reference document section. It is not referenced anywhere else in document.
  Response: All the test methods performed as part of NTPEP CADD fall under ASTM C494 and referenced in that standard directly.

3. Lab preparation of samples for IR scans
   - Discussed under agenda item 1.

4. Discuss circumstances for product name changes and data value revisions
   - Name change requests submitted before a test report is published will allowed
   - Name change requests submitted after test reports are published are subject to section 4.4 of the work plan and a certified letter will be required. The certified letter will then be attached to existing reports but no new reports will be issued.
   - Value changes will not be allowed under any circumstance moving forward.

5. Call for DOT/industry personnel to give short presentation at annual meeting
   - Anita (WR Meadows) to give a brief presentation on Concrete Curing Compounds – what they are, and benefit of using them, and how the CCC industry can benefit from using NTPEP
   - Nate to check with other manufacturers to give a similar presentation on concrete admixtures
   - Limit presentation to 5 minutes
   - Still looking for state volunteers

6. Other Items
   - Chloride content procedure needs to be defined and added to the CADD Work Plan (next call)
   - Section 4.3 needs to be clarified and table removed
     Action Item: Maribel to clean up section 4.3 in CADD work plan
   - NTPEP Executive committee emphasized that communication between manufacturers and labs should be minimal, and shall always include NTPEP personnel and committee chair.
• Requests by manufacturers to have their products send to a certain lab are not logistically feasible.
• NEXT CALL **Wednesday January 25th 2017 1pm Eastern Time** (if you have not received calendar invitation – please contact Maribel Wong, mwong@aashto.org)